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## **1.0 EMISSION STANDARDS**

Radioactive air emission standards for the State of Washington are contained in WAC 173-480-040, 173-480-050, 173-480-060 and in 40 CFR Part 61, Subparts H. In accordance with WAC 173-480-050 Health shall enforce the most stringent standard in effect.

Under WAC 246-247-040(5), the department may set limits on emission rates for specific radionuclides for specific emission units and/or set requirements and limitations on the operation of emission unit(s) as specified in this license. Health establishes emission limits in Notice of Construction (NOC) approvals and the FF-01 License.

All new construction and significant modifications of emission units from August 10, 1988 until the termination of this license, shall utilize BARCT per WAC 246-247-040(3).

All existing emission units and insignificant modifications shall utilize ALARACT.  
[WAC 246-247-040(4)]

## **2.0 MONITORING, TESTING, QUALITY ASSURANCE, REPORTING AND RECORD KEEPING**

Emission units with a potential-to-emit less than 0.1 mrem/yr TEDE to the MEI may, use periodic confirmatory monitoring methods approved by the department under WAC 246-247-075(3).

WAC 246-247-075(11) requires the licensee to address accidental releases when planning for any new construction or significant modification of the emission unit if the probability of occurrence during the expected life of the emission unit is greater than one percent.

### **2.1 REQUIREMENTS FOR DIFFUSE OR FUGITIVE SOURCES IN TABLE 2.1**

Section 5 of Attachment 2 describes the requirements for monitoring and reporting of diffuse or fugitive source emissions. The ambient air monitoring conducted at the Hanford Site has been accepted by the department as the method for demonstrating compliance to emissions limits for diffuse and fugitive sources. Those sources with Emission Unit specific conditions and limitations within the FF-01 License must be monitored and meet the applicable quality assurance and analysis requirements. All required ambient air monitors shall be identified along with their data measurements in the annual Radionuclide Air Emissions Report.

#### **Quality Assurance and Analysis**

All required ambient air samples collected and analyzed must be compatible with the quality assurance requirements of national standards such as NQA-1, EPA QA/R-5, and Method 114 as applicable. Near-facility ambient air samples from individual stations must be composited at a frequency no greater than 6 months.

## **Modifications to the Diffuse and Fugitive Environmental Monitoring**

Prior to making modifications (i.e., moving, or removing air sample locations, or changing the sampling period) to the accepted periodic confirmatory measurement (for minor diffuse and fugitive sources) and continuous measurement (for major diffuse and fugitive sources) the Department of Health, Air Emissions and Defense Waste Section shall approve a written request for the modifications. The request for modification may take the form of an email or formal letter. Analysis of other media samples will be conducted at labs with the appropriate quality assurance programs in-place.

### **2.2 COMPLIANCE ASSURANCE MONITORING FOR SOURCES DISCOVERED ON SITE**

In the course of Hanford's 50-year history radioactive waste products may have been disposed of by means not allowed by today's standards. These disposal areas represent potential diffuse or passively ventilated point sources of radioactive airborne emissions. The license describes actions that must be taken upon the licensee discovering any category of diffuse or passively ventilated point sources. These actions include a means to establish methods for determining compliance assurance.

Categories of emission units or other specific emission units not identified in existing Tables, will meet the requirements for periodic confirmatory monitoring, recordkeeping, and reporting found in Attachment 2. The annual Radionuclide Air Emissions Report for the Hanford Site satisfies the reporting requirements.

### **3.0 EMISSION UNIT IDENTIFICATION DESCRIPTIONS USED IN ATTACHMENT 2**

The principle identifier used in Attachment 2 of the Air Operation Permit is the Emission Unit ID number. This number is assigned to an emission unit when registered with the department. In addition to the Emission Unit ID number the Air Emissions Inventory (AEI) number is also used as an identifier. This unique identifier was established for use in the Hanford Air Operating Permit. It is based upon an alphanumeric code description indicating key information concerning the operational area code, a category code, a building identifier, and type of emission point identifier code.

Secondary emission unit identifications were used in the permit for familiarity with the identification such as the commonly used regulatory identification.

For facility operator's ease of use, a plant name or tank farm was listed with the emission unit identifiers.

In Attachment 2, Health used a three digit Emission Unit ID in small font under the heading text. This number is created from the database Health uses to track and generate the emission unit requirements for each emission unit.

An example of the heading used in Attachment 2 would be as follows:

**Emission Unit ID: 393**.....*Health's database tracking number*  
**200W P-291Z001** .....*The AEI number*  
**291-Z-1** .....*The regulatory ID*  
**PLUTONIUM FINISHING PLANT (Z PLANT)**... *The associated building or tank farm*

**AEI number representation:**

**200W**      Operational area code  
**P**          Process emission point  
**291Z**      Building number  
**001**      Emission Unit ID number

#### **4.0 ALARACT AGREEMENTS**

The following ALARACT Agreements describe the approved methods for compliance to ALARACT set forth in Attachment 2 for the following approved routine activities.

<b>ALARACT Number</b>	<b>ALARACT Agreement Title</b>
1	TANK FARM ALARACT DEMONSTRATION FOR RISER PREPARATION/OPENING
2	TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION/OPERATION/REMOVAL OF PUSH MODE CORE SAMPLING EQUIPMENT
3	TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION/OPERATION/REMOVAL OF AUGER SAMPLING EQUIPMENT
4	TANK FARM ALARACT DEMONSTRATION FOR PACKAGING AND TRANSPORTATION OF WASTE
5	TANK FARM ALARACT DEMONSTRATION SOIL EXCAVATION (using hand tools)
6	TANK FARM ALARACT DEMONSTRATION FOR PIT ACCESS
7	TANK FARM ALARACT DEMONSTRATION FOR TANK WASTE GRAB SAMPLING
8	TANK FARM ALARACT DEMONSTRATION FOR VAPOR SAMPLING
10	TANK FARM ALARACT DEMONSTRATION FOR WATER LANCING
11	TANK FARM ALARACT DEMONSTRATION FOR WASTE TRANSFERS
12	TANK FARM ALARACT DEMONSTRATION FOR PACKAGING AND TRANSPORTATION OF EQUIPMENT & VEHICLES
13	TANK FARM ALARACT DEMONSTRATION FOR INSTALLATION, OPERATION, AND REMOVAL OF TANK EQUIPMENT

<b>ALARACT Number</b>	<b>ALARACT Agreement Title</b>
14	TANK FARM ALARACT DEMONSTRATION FOR PIT WORK. This ALARACT demonstration applies to all pits except 241-ER-152, 241-S-151, 241-UX-154, 241-TX-154, 244-CR Vault DCRT, 244-A Lift Station DCRT, and 244-TX DCRT.
15	TANK FARM ALARACT DEMONSTRATION FOR SIZE REDUCTION OF WASTE EQUIPMENT FOR DISPOSAL
16	TANK FARM ALARACT DEMONSTRATION FOR WORK ON POTENTIALLY CONTAMINATED VENTILATION SYSTEM COMPONENTS
18	ALARACT DEMONSTRATION FOR WELL DRILLING
26	DISPOSAL BY BURNING OF POTENTIALLY CONTAMINATED TUMBLEWEEDS
28	SHUTDOWN OF STACK SYSTEM(s) (Maintenance and incidental)
29	242-A EVAPORATOR MAINTENANCE FACILITY SHUTDOWNS
30	TANK FARM ALARACT DEMONSTRATION FOR STACK EXTENSION AND PASSIVE EMISSION POINT VENTURI

**5.0 OBSOLETE EMISSION UNITS**

<b>EU ID</b>	<b>Emission Unit Name</b>	<b>Date Obsolete</b>
60	296-T-12	2/2/2006
61	296-T-11	2/2/2006
95	296-P-41	10/25/2002
144	296-P-33	5/23/2006
167	Cross-site transfer line	2/14/2003
171	P-241ER151-001	5/01/2006
184	RCF-2-EX	5/25/2006
185	ER311	2/14/2003
195	309-PRTR-001	4/18/2002
197	305 B Building	5/25/2006
211	296-A-13	10/25/2002
221	296-A-17	10/25/2002
222	296-A-25	8/6/2004
253	296-P-34	5/23/2006
307	EP-3020-01-S	6/4/2002
319	P-241AR151-001	5/01/2006
329	296-U-11	10/25/2002
330	P-241AX155-001	5/01/2006
336	296-S-2	3/3/2006
342	EP-331G-01-S	3/21/2003
343	EP-331G-02-S	3/21/2003
344	241-UX-154 Diversion Box	8/10/2004
348	306 W-03-V	12/20/2004
356	EP-320-03-S	7/21/2004
392	296-Z-10	3/3/2006
419	EP-3720-01-S	7/20/2004
456	Tank Farm Restoration and Safe Storage	12/31/2002
479	Portable Exhauster	6/4/2002
480	Soil Characterization Using Cone Penetrometer	10/19/2002
481	ETF Load-In Station Filter Skid	1/15/2004
482	Hexone Tanks	5/24/2002
483	By-Pass of 244-U DCRT	11/19/2002
484	Borehole 41-09-39	2/14/2003
487	Vadose Zone Characterization	5/01/2001
488	Isolation of Valve Box#11 Outside 324 Facility	2/14/2003
490	Portable Exhauster on Pit 244-TX DCRT	8/10/2004
492	241-TX-154 Diversion Box	8/10/2004
493	Tank Farm 241-S-151 Diversion Box	8/10/2004
494	Portex 030	3/03/2006
497	244-CR-VAULT activities	8/6/2004
560	Decontamination Trailer	8/6/2004

**6.0 OBSOLETE APPROVALS**

<b>EU ID</b>	<b>NOC ID</b>	<b>Project Title</b>	<b>Date Obsolete</b>	<b>Permit Number</b>
50	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	380	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping, addition of tanks 241-A-101, 241-U-102, Rev. 4	10/25/2002	NOC Revision
	455	Interim stabilization activities associated with removal of remaining pumpable liquids present in the 244-AR facility	8/6/2004	AIR 02-1108
56	62	241-SY-101 Tank Mixer Pump Replacement	11/19/2002	AIR 95-203
	358	241-SY-101 Crust Growth Near Term Mitigation	11/19/2002	Shortform
57	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	380	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping, addition of tanks 241-A-101, 241-U-102, Rev. 4	10/25/2002	NOC Revision
58	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	380	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping, addition of tanks 241-A-101, 241-U-102, Rev. 4	10/25/2002	NOC Revision
	455	Interim stabilization activities associated with removal of remaining pumpable liquids present in the 244-AR facility	8/6/2004	AIR 02-1108
64	242	Rotary Mode Core Sampling (RMCS) Systems at 241-SX	9/22/2005	AIR 02-1237
	263	241-SX-104 Saltwell Pumping, Phase I	11/19/2002	Shortform
	283	Saltwell Pumping of tank 241-SX-106	12/31/2002	RTAM
	423	Saltwell Pumping Tanks 241-SX-101, 241-SX-102, 241-SX-103, and 241-SX-105	6/14/2006	AIR 02-1248
89	393	Isolation of Exhauster 296-P-17 from Tank 105-A in the 241-A Tank Farm	11/19/2002	NOC Revision
93	286	241-AZ and 241-AZ Ventilation Upgrades	12/31/2002	AIR 98-708
	296	Installation and Operation of Waste Retrieval Systems in Tanks 241-AZ-101 and 241-AZ-102	7/26/2005	AIR 02-503
	333	241-AZ and 241-AZ Ventilation Upgrades	12/31/2002	NOC Revision
144	261	Rotary Mode Core Sampling (RMCS) Systems 3 & 4, Rev. 1	8/23/2004	AIR 98-301
	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	607	Operation of Rotary Mode Core Sampling Systems Three and Four.	9/22/2005	AIR 04-904

<b>EU ID</b>	<b>NOC ID</b>	<b>Project Title</b>	<b>Date Obsolete</b>	<b>Permit Number</b>
145	343	Use of a portable exhauster at 244-AR Vault	12/20/2002	Revision Form
146	211	200 Area Effluent Treatment Facility (ETF) and Load-In Station, and Liquid Effluent Retention Facility (LERF) (Emission Point: 296-E-1)	12/31/2002	Revision Form
147	211	200 Area Effluent Treatment Facility (ETF) and Load-In Station, and Liquid Effluent Retention Facility (LERF) (Emission Point: 296-E-1)	12/31/2002	Revision Form
148	211	200 Area Effluent Treatment Facility (ETF) and Load-In Station, and Liquid Effluent Retention Facility (LERF) (Emission Point: 296-E-1)	12/31/2002	Revision Form
165	120	S-Farm removal of duct work and associated exhausters	10/15/2002	AIR 95-1004
	339	Stack Monitoring System Upgrades (Project W-420)	9/22/2005	AIR 02-1235
	365	Stack Monitoring System Upgrades Resume Work Strategy (Project W-420)	12/31/2002	RTAM
166	339	Stack Monitoring System Upgrades (Project W-420)	9/22/2005	AIR 02-1235
	365	Stack Monitoring System Upgrades Resume Work Strategy (Project W-420)	12/31/2002	RTAM
175	131	Removal of HEPA Filtration in the 318 Building	7/24/2001	RTAM
	251	Building 318 Modification and stack relocation	12/23/2002	Shortform
185	412	Installation and use of a new emissions unit for the 241-ER-311 Catch Tank.	11/19/2002	Shortform
190	547	K-East Basin Sludge and Water System	10/10/2003	CERCLA
	24	105-KE Basin Fuel Removal	2/18/2004	AIR 04-105
195	291	Decontamination and Stabilization Activities For 309 Plutonium Recycle Test Reactor	3/27/2002	NOC Revision
197	319	Operation of the Dangerous and Radioactive Mixed Waste Storage Facility (305-B)	5/25/2006	AIR 02-1202
208	339	Stack Monitoring System Upgrades (Project W-420)	9/22/2005	AIR 02-1235
	365	Stack Monitoring System Upgrades Resume Work Strategy (Project W-420)	12/31/2002	RTAM
213	45	244-CR Vault Double-Contained Receiver Tank	12/31/2002	AIR 94-913
	339	Stack Monitoring System Upgrades (Project W-420)	9/22/2005	AIR 02-1235



<b>EU ID</b>	<b>NOC ID</b>	<b>Project Title</b>	<b>Date Obsolete</b>	<b>Permit Number</b>
217	365	Stack Monitoring System Upgrades Resume Work Strategy (Project W-420)	12/31/2002	RTAM
	484	241-AY-101 Annulus Primary Tank Wall Cleaning Activities	11/19/2002	AIR 01-1108
	329	Basin Drain System Mitigation Activities at the 105 K East and 105 K West Basins	1/28/2002	AIR 98-1006
224	38	Installation of a small mixer pump to support routine pH adjustment in Tank 107-AN.	11/19/2002	RTAM
227				
234				
236	339	Stack Monitoring System Upgrades (Project W-420)	9/22/2005	AIR 02-1235
	365	Stack Monitoring System Upgrades Resume Work Strategy (Project W-420)	12/31/2002	RTAM
	310	241-C-106 Tank Sluicing, Phase II	11/25/2002	AIR 98-1002
253	261	Rotary Mode Core Sampling (RMCS) Systems 3 & 4, Rev. 1	8/23/2004	AIR 98-301
284	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	607	Operation of Rotary Mode Core Sampling Systems Three and Four.	9/22/2005	AIR 04-904
	429	Use of an ultra high pressure water lance to install saltwell pumping equipment in Tank 241-BY-105	11/19/2002	AIR 00-207
301	211	200 Area Effluent Treatment Facility (ETF) and Load-In Station, and Liquid Effluent Retention Facility (LERF) (Emission Point: 296-E-1)	12/31/2002	Revision Form
307				
314				
332	248	Environmental Molecular Sciences Laboratory (EMSL) Uranyl nitrate hexahydrate project	12/5/2001	Shortform
	445	Storage in T Plant Complex of Sludge from K Basins	5/16/2005	AIR 03-1208
	499	T Plant Complex Fuel Removal Project	5/16/2005	AIR 01-1010
336	500	Entering and Characterizing of the 224-T Facility Process Cells	5/16/2005	AIR 02-704
340	413	REDOX Plutonium Loadout Hood Stabilization	8/27/2002	NOC Revision
342	413	REDOX Plutonium Loadout Hood Stabilization	8/27/2002	NOC Revision
	249	Waste Encapsulation and Storage Facility (WESF) K-3 Duct Characterization	6/11/2002	NOC Revision
	252	Registration of Existing Stacks at the 331-G Building	3/10/2003	AIR 02-1217

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343	252	Registration of Existing Stacks at the 331-G Building	3/10/2003	AIR 02-1217
344	401	Tank Farm 241-UX-154 Diversion Box	8/10/2004	AIR 02-1242
348	233	X-Ray and Low Level Waste Repackaging in the 306W Building	12/28/2004	AIR 02-1216
360	113	Cleanout of B-Cell in the 324 Building	2/25/2002	AIR 95-903
361	469	Deactivation Activities at the 324 Building	2/25/2002	AIR 01-608
	491	Medical Isotope Research Using Th-232 in the Radiochemical Processing Laboratory (325 Building)	12/10/2002	AIR 02-206
	302	325 Building Hazardous Waste Treatment Unit (HWTU)	12/10/2002	AIR 02-809
	430	Tritium Target Qualification Program Radiochemical Processing laboratory 325 Building, 300 Area	12/10/2002	AIR 02-808
	447	I-131 Medical Isotope Research in the Radiochemical Processing Laboratory (325 Building)	12/10/2002	AIR 02-102
	127	Removal of 3rd Stage HEPA Filter, 325 Building	7/24/2001	RTAM
	253	Transfer Strontium-90 from the 324 Building to the 325 Building	12/10/2002	Shortform
	294	Modification to the annual possession quantity of the 325 Building Special Nuclear Materials Disposition and Low-Level Waste Vitrification Research Programs (Pu-238)	12/10/2002	AIR 98-807
366	64	329 Building, Chemical Sciences Laboratory	8/29/2001	AIR 95-205
	494	Research at the 329 Facility	7/20/2004	AIR 01-1006
386	563	Decontamination for Transition of the 241-Z Liquid Waste Treatment Facility to Demolition	4/3/2006	AIR 03-1109
387	11	Plutonium Finishing Plant Low-Level Waste Treatment Facility	12/30/2004	AIR 02-1212
389	450	Plutonium Finishing Plant Stabilization and Packaging Equipment	12/30/2004	AIR 04-202
390	450	Plutonium Finishing Plant Stabilization and Packaging Equipment	12/30/2004	AIR 04-202
391	553	Transition of the 232-Z Contaminated Waste Recovery Process Facility at the Plutonium Finishing Plant	8/17/2004	AIR 03-902
393	374	Construction, Installation, Operation, and Removal of a Vertical Calciner to Stabilize Plutonium at PFP.	12/30/2004	AIR 01-710

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	432	Plutonium Finishing Plant (PFP) Cementation process (ALARACT)	12/2/2002	AIR 00-302
	443	Magnesium Hydroxide Precipitation Process at the Plutonium Finishing Plant	12/30/2004	AIR 03-1207
	124	Ductwork and Process Piping Remediation in Buildings 234-5Z & 291-Z (PFP)	12/30/2004	AIR 02-1213
	170	Plutonium Finishing Plant Duct Work and Process Piping Remediation	9/6/2002	RTAM
	209	Disposition of Select Plutonium-Bearing Alloys at the Plutonium Finishing Plant (PFP)	12/30/2004	AIR 03-104
395				
	246	FFTF Ion Exchange Resin Columns Changeout	11/29/2002	AIR 97-1203
412				
	143	HEPA Filter Bank Removal in the 331 Building	7/24/2001	RTAM
	158	Approval to relocate Portable Radon Research Facility to any location on site	12/30/2002	AIR 96-506
	254	Life Sciences Laboratory-1 (331 Building)	11/23/2004	AIR 02-207
423				
	228	340-A Building Tank Sludge Cleanout	2/14/2005	AIR 03-1203
438				
	8	219-S to 204-AR Truck Transfers	8/6/2004	AIR 03-1202
	332	219-S to 204-AR Truck Transfers	8/6/2004	NOC Revision
443				
	437	Removal of a Section of Concrete from the 384 Powerhouse Bunker Tanks	10/31/2003	AIR 02-515
	469	Deactivation Activities at the 324 Building	2/25/2002	AIR 01-608
	485	Demolition of 303-K Storage Facility	8/15/2002	AIR 01-1014
447				
	435	Tank Farm Restoration and Safe Storage	12/31/2002	AIR 02-901
	455	Interim stabilization activities associated with removal of remaining pumpable liquids present in the 244-AR facility	8/6/2004	AIR 02-1108
	500	Entering and Characterizing of the 224-T Facility Process Cells	5/16/2005	AIR 02-704
461				
	292	Modular Containment (PermaCon) for Sampling Activities at the Central Waste Complex	7/29/2002	RTAM
476				
	492	Retrieving Buried Containers of Transuranic (TRU) and Suspect-TRU Waste From the Low-Level Burial Grounds (LLBG)	12/12/2003	AIR 02-103
	296	Installation and Operation of Waste Retrieval Systems in Tanks 241-AZ-101 and 241-AZ-102	7/26/2005	AIR 02-503
	435	Tank Farm Restoration and Safe Storage	12/31/2002	AIR 02-901
	455	Interim stabilization activities associated with removal of remaining pumpable liquids present in the 244-AR facility	8/6/2004	AIR 02-1108
479				
	336	219-S Waste Handling Facility Secondary Containment Upgrade (Project W-178)	8/21/2002	NOC revision
480				
	324	Soil Characterization Using the Cone Penetrometer	11/19/2002	AIR 98-1009

EU ID	NOC ID	Project Title	Date Obsolete	Permit Number
481	350	Addition of 200 Area Effluent Treatment Facility (ETF) Load-In Station Filter Skid	1/15/2004	AIR 02-208
482	441	Stabilizing the Hexone Tanks 276-S-141 and 276-S-142	5/24/2002	AIR 02-101
483	360	By-Passing the 244-U Double Contained Receiver Tank (DCRT) During Saltwell Pumping	11/19/2002	Shortform
486	539	Installation of Breather Filter on Tank 241-C-106	06/14/2006	AIR 03-203
	598	Construction and Operation of a Fuel Storage Facility at the Plutonium Finishing Plant Complex	12/30/2004	AIR 04-605
	585	Plutonium Finishing Plant Decontamination Trailer	12/30/2004	AIR 04-309
	605	Indoor Releases Performed With Uranium Hexafluoride in the UO-3 Plant Complex 200W Area.	12/28/2004	AIR 04-815
	563	Decontamination for Transition of the 241-Z Liquid Waste Treatment Facility to Demolition	4/3/2006	AIR 03-1109
	492	Retrieving Buried Containers of Transuranic (TRU) and Suspect-TRU Waste From the Low-Level Burial Grounds (LLBG)	12/12/2003	AIR 02-103
	500	Entering and Characterizing of the 224-T Facility Process Cells	5/16/2005	AIR 02-704
	504	Exhaust Fan Replacement at the 291-T-1 Stack	9/29/2005	AIR 02-509
	438	Operation of a Conex Box Adapted to Allow Ambient Air Drying of Radionuclide Contaminated Green Vegetation	10/31/2003	AIR 02-516
	455	Interim stabilization activities associated with removal of remaining pumpable liquids present in the 244-AR facility	8/6/2004	AIR 02-1108
	470	Radioactive Asbestos Removal From the Exterior of Hanford Facilities Located in the 200 Areas	8/10/2004	AIR 01-609
	327	Portable Exhauster Use On Single Shell (SST) Tanks During Saltwell Pumping	9/22/2005	AIR 02-1020
	553	Transition of the 232-Z Contaminated Waste Recovery Process Facility at the Plutonium Finishing Plant	8/17/2004	AIR 03-902
	435	Tank Farm Restoration and Safe Storage	12/31/2002	AIR 02-901
	517	Waste Treatment Plant Phase I	8/6/2004	AIR 03-310
	518	Stabilization, Deactivation, and Demolition of the Plutonium Finishing Plant (PFP) Ancillary Buildings and Structures	12/30/2004	AIR 02-807
	296	Installation and Operation of Waste Retrieval Systems in Tanks 241-AZ-101 and 241-AZ-102	7/26/2005	AIR 02-503
	487	Waste transfer from the Vit Plant to LERF and TDF under project W-519.	6/26/2001	AIR 00-706
487	379	Tank Waste Remediation System Vadose Zone Characterization	5/14/2001	AIR 00-515
	387	Vadose Zone Characterization NOC revision	6/21/2001	NOC Revision
	409	Vadose Zone Characterization NOC Revision 2	6/21/2001	NOC Revision
	454	Vadose Zone Characterization	6/21/2001	AIR 00-1104

<b>EU ID</b>	<b>NOC ID</b>	<b>Project Title</b>	<b>Date Obsolete</b>	<b>Permit Number</b>
	490	Tank Waste Remediation System Vadose Zone Characterization, revision 1	6/21/2001	AIR 00-515
489	356	Operation of the 4843 Building Waste Inspection Facility	10/25/2002	Shortform
490	403	Tank Farm Waste Transfer Pit 244-TX Double Contained Receiver Tank (DCRT)	8/10/2004	AIR 02-1243
492	408	Tank Farm 241-TX-154 Diversion Box	8/10/2004	AIR 02-1245
493	407	Tank Farm 241-S-151 Diversion Box	8/10/2004	AIR 02-1244
497	424	244-CR Vault work activities	8/6/2004	AIR 00-206
499	120	S-Farm removal of duct work and associated exhausters	10/15/2002	AIR 95-1004
501	446	300 Area Process Sewer Cleanout	12/31/2002	AIR 00-708
503	450	Plutonium Finishing Plant Stabilization and Packaging Equipment	12/30/2004	AIR 04-202
560	506	Operation of a Mobile Decontamination Trailer	8/6/2004	AIR 02-410
689	526	Stabilization of Two Concrete Boxes Containing Ion Exchange Columns in 183-KW Vault	3/15/2006	AIR 02-810
712	539	Installation of Breather Filter on Tank 241-C-106	6/14/2006	AIR 03-203
716	539	Installation of Breather Filter on Tank 241-C-106	6/14/2006	AIR 03-203
717	539	Installation of Breather Filter on Tank 241-C-106	6/14/2006	AIR 03-203
747	563	Decontamination for Transition of the 241-Z Liquid Waste Treatment Facility to Demolition	4/3/2006	AIR 03-1109
874	598	Construction and Operation of a Fuel Storage Facility at the Plutonium Finishing Plant Complex	12/30/2004	AIR 04-605

## **7.0 CERCLA APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS**

### **CERCLA Substantive Requirements -- Applicable or Relevant and Appropriate Regulations**

[WAC 246-247-040]

Regulations promulgated under statutory authority other than the FCAA (e.g., RCRA and CERCLA) are not Title V applicable requirements and are not included in the license. In addition, actions taken pursuant to CERCLA are exempt from permitting. However, the actions taken must meet the substantive requirements of applicable or relevant and appropriate regulations (ARARs) (e.g., WAC 246-247-040, ALARACT). Characterization and cleanup activities are being conducted at Hanford pursuant to CERCLA. The characterization and cleanup activities are applying best available radionuclide control technology to control emissions, and emissions are being monitored to ensure that the offsite dose to the maximally exposed individual is below the applicable standards. The CERCLA decision documents, such as an Action Memo, identify ARARs.